

In the Claims:

1. (Currently amended) A spray coating unit (1) for treating a moving paper or board web (3) with a treating agent, the spray coating unit comprising:

[-] an application chamber (P2), through which the web (3) to be treated is arranged to travel, the application chamber (P2) comprising an inlet opening (4) for leading the web (3) into the application chamber (2) and an outlet opening (5) for leading the web out of the application chamber (2), ~~and~~;

[-] at least one row of nozzles comprising at least one nozzle (6) for spraying the treating agent on the surface of the web (3) in the application chamber (P2), ~~characterized by~~ ; and

[-] spraying members (15) for spraying water mist into the application chamber (P2).

2. (Currently amended) [[A]] ~~The spray coating unit according to Claim of claim 1, characterized in that wherein~~ the spraying members (15) are provided with members for atomizing water mist into an average drop size of no more than 150  $\mu\text{m}$ , ~~preferably no more than 50  $\mu\text{m}$ .~~

3. (Currently amended) [[A]] ~~The spray coating unit according to Claim of claim 1 or 2, characterized in that wherein~~ the spraying members (15) are ~~fitted~~ located in the vicinity of the inlet opening (4) at least on one side of the web (3).

4. (Currently amended) [[A]] ~~The spray coating unit according to Claim of claim 3, characterized in that wherein~~ the spraying members are ~~fitted~~ located in the vicinity of the inlet opening (4) on both sides of the web (3).

5. (Currently amended) [[A]] ~~The spray coating unit according to any of the preceding claims, characterized in that of claim 1, wherein~~ the spraying members comprise nozzles that are fitted next to each other in the cross direction of the web.

6. (Currently amended) A method for treating a movable paper or board web (3) with a treating agent, ~~the method comprising:~~

~~[[[-]] taking the web (3) into an application chamber (P2) through an inlet opening (4);~~

~~[[[-]] spraying the treating agent on the surface of the web (3) in the application chamber (P2); and;~~

~~[[[-]] bringing the web (3) out of the application chamber (P2) through the outlet opening (5); and~~

~~characterized in that spraying water mist is sprayed into the application chamber (P2).~~

7. (Currently amended) [[A]] ~~The method according to Claim of claim 6, characterized in that wherein an average drop size of the water mist [[is]] sprayed into the application chamber (P2), its average drop size being is not more than 150  $\mu\text{m}$ , preferably not more than 50  $\mu\text{m}$ .~~

8. (Currently amended) [[A]] ~~The method according to Claim of claim 6 or 7, characterized in that wherein the water mist is sprayed in the vicinity of the inlet opening (4) at least on one side of the web (3).~~

9. (Currently amended) [[A]] ~~The method according to Claim of claim 8, characterized in that wherein the water mist is sprayed to the vicinity of the inlet opening (4) on both sides of the web (3).~~

10. (New) The spray coating unit of claim 1, wherein the spraying members are provided with members for atomizing water mist into an average drop size of no more than 50  $\mu\text{m}$ .

11. (New) The spray coating unit of claim 2, wherein the spraying members are located in the vicinity of the inlet opening at least on one side of the web.

12. (New) The spray coating unit of claim 11, wherein the spraying members are located in the vicinity of the inlet opening on both sides of the web.

13. (New) The method of claim 6, wherein an average drop size of the water mist sprayed into the application chamber is not more than 50  $\mu\text{m}$ .

14. (New) The method of claim 7, wherein the water mist is sprayed in the vicinity of the inlet opening at least on one side of the web.

15. (New) The method of claim 14, wherein the water mist is sprayed to the vicinity of the inlet opening on both sides of the web.